

United States Patent and Trademark Office

COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
09/236,062	01/22/99	ZHAO		R	33850/PYI/S6
Г		TM02/051		EXAMINER	
DANIEL M CA	15077,091	-	NGUYEN, T		
CHRISTIE PARKER & HALE				ART UNIT	PAPER NUMBER 4
P O BOX 706 PASADENA CA	8 91109-7068			2182	
				DATE MAILED:	05/15/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. **09/236,062**

Applicant(s)

Zhao et al.

Examiner

Tanh Nguyen

Art Unit **2182**



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE one MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 1) X Responsive to communication(s) filed on Jan 22, 1999 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quay/935 C.D. 11; 453 O.G. 213. Disposition of Claims is/are pending in the applica 4) X Claim(s) 1-34 4a) Of the above, claim(s) ______ is/are withdrawn from considera is/are allowed. 5) Claim(s) is/are rejected. 6) Claim(s) is/are objected to. 7) Claim(s) ___ are subject to restriction and/or election requirem 8) X Claims 1-34 Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on ______ is/are objected to by the Examiner. 11) ☐ The proposed drawing correction filed on ______ is: a ☐ approved b) ☐ disapproved. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) ☐ All b) ☐ Some* c) ☐ None of: 1.

Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3.
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Attachment(s) 18) Interview Summary (PTO-413) Paper No(s). 15) Notice of References Cited (PTO-892) 19) Notice of Informal Patent Application (PTO-152) 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 20) Other: 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s). ___

Art Unit: 2182

DETAILED ACTION

Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-13 and 30-34, drawn to Input/Output Access Prioritization, classified in class 710, subclass 40.
 - II. Claims 14-15, drawn to Flow Controlling, classified in class 710, subclass 29.
 - III. Claims 16-29, drawn to Input/Output Data Buffering, classified in class 710, subclass 52.
- 2. Inventions I and III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the apparatus as claimed in invention III can be used to practice another and materially different process such as increasing the effective bus bandwidth with write combining memory and with encoded commands [invention II].
- 3. Inventions II and III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the apparatus as

Application/Control Number: 09/236,062

Page 3

Art Unit: 2182

claimed in invention III can be used to practice can be used to practice another and materially different process such as providing ordered data to a device [invention I].

- 4. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because Invention I does not require the write combining memory and/or the encoded commands of Invention II for patentability. The subcombination has separate utility such as combining individual writes into an aggregation and/or encoding commands to indicate the meaning of the parameters pertaining to the commands.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 6. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Art Unit: 2182

7. A telephone call was made to Applicant's representative, Patrick Y. Ikehara (Reg. No. 42,681) on May 4, 2001 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tanh Quang Nguyen whose telephone number is (703) 305-0138, and whose e-mail address is tanh.nguyen36@uspto.gov. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee, can be reached on (703) 305-9717. The fax phone number for the organization where this application or proceeding is assigned is (703) 306-5404.

Art Unit: 2182

Any inquiry of a general nature relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Mail responses to this action should be sent to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

Faxes for formal communications intended for entry should be sent to:

(703) 308-9051,

or, for informal or draft communications, to:

(703) 306-5404 (please label "PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to:

Crystal Park II, 2121 Crystal Drive, Arlington, Va, Sixth Floor (Receptionist).

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100

TQN

May 7, 2001